FIG.1 PRIOR ART

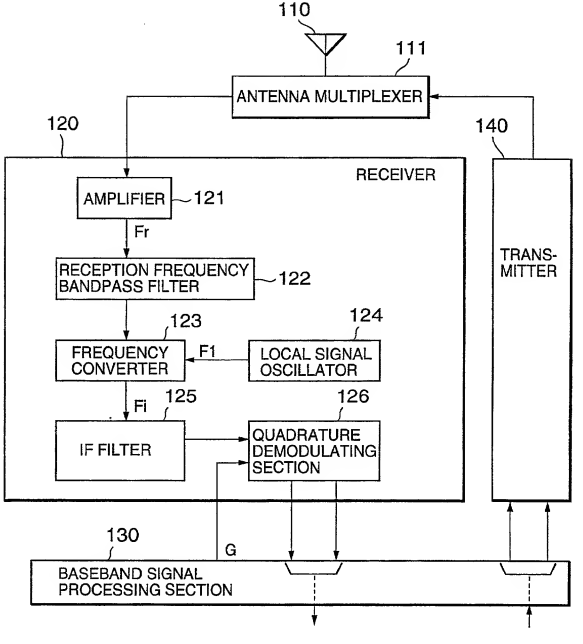

FIG.2 PRIOR ART

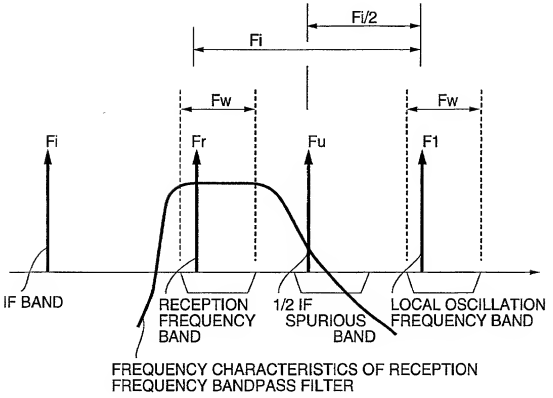

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FIG.3 PRIOR ART

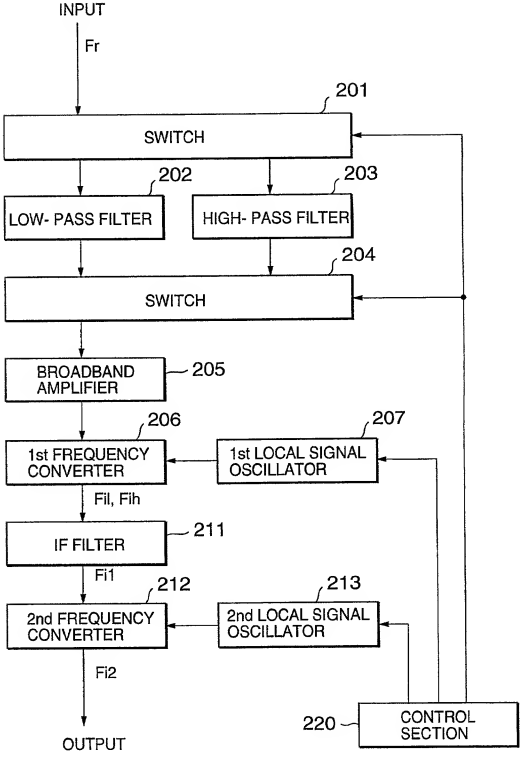

FIG.4A PRIOR ART

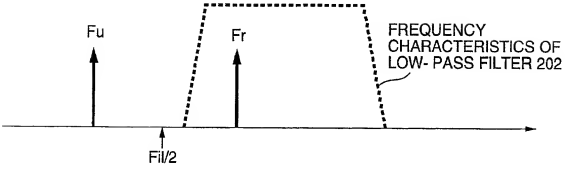

FIG.4B PRIOR ART

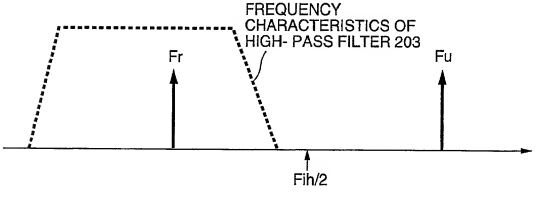

FIG.4C PRIOR ART

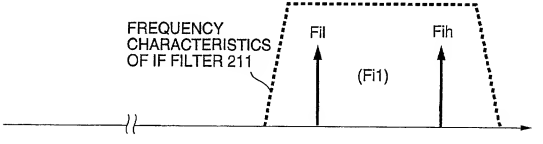

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FIG.5

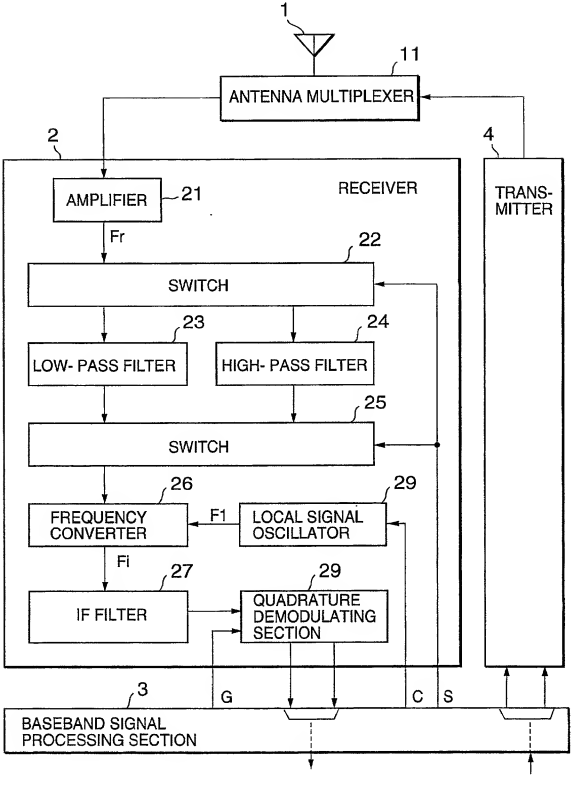

1
11
ANTENNA MULTIPLEXER
2
4
AMPLIFIER
21
RECEIVER
TRANS-
MITTER
Fr
22
SWITCH
23
24
LOW- PASS FILTER
HIGH- PASS FILTER
25
SWITCH
26
29
FREQUENCY
CONVERTER
F1
LOCAL SIGNAL
OSCILLATOR
Fi
27
29
IF FILTER
QUADRATURE
DEMODULATING
SECTION
3
G
C
S
BASEBAND SIGNAL
PROCESSING SECTION

FIG.6

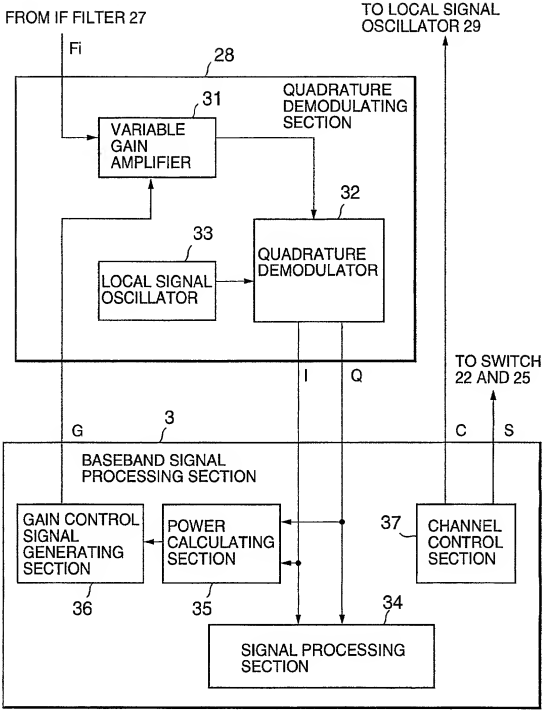
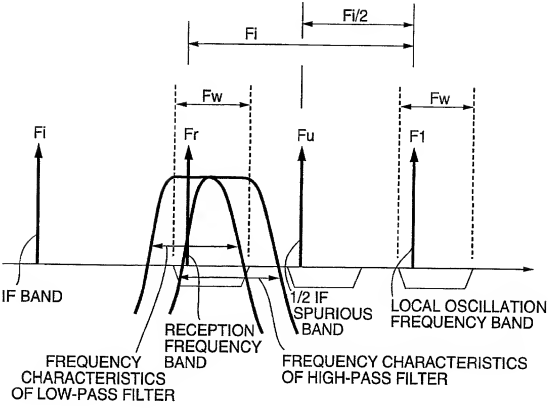

FROM IF FILTER 27
Fi
TO LOCAL SIGNAL OSCILLATOR 29
28
QUADRATURE DEMODULATING SECTION
31
VARIABLE GAIN AMPLIFIER
32
33
LOCAL SIGNAL OSCILLATOR
QUADRATURE DEMODULATOR
I
Q
TO SWITCH 22 AND 25
G
3
C
S
BASEBAND SIGNAL PROCESSING SECTION
GAIN CONTROL SIGNAL GENERATING SECTION
POWER CALCULATING SECTION
37
CHANNEL CONTROL SECTION
36
35
34
SIGNAL PROCESSING SECTION

FIG.7


Fi/2
Fi
Fw
Fw
Fi
Fr
Fu
F1
IF BAND
1/2 IF SPURIOUS BAND
LOCAL OSCILLATION FREQUENCY BAND
RECEPTION FREQUENCY BAND
FREQUENCY CHARACTERISTICS OF LOW-PASS FILTER
FREQUENCY CHARACTERISTICS OF HIGH-PASS FILTER